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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference TY03003PCT	FOR FURTHER ACTIO	See Notification Preliminary Exa	n of Transmittal of In amination Report (Fo	ternational orm PCT/IP	EA/416)
International application No. PCT/JP 03/08796	month/year)	Priority date (day/r 31.07.2002	nonth/year)		
International Patent Classification (IPC) or b	oth national classification and I	PC		., .	
E04B1/74			•		
Applicant TOYOTA JIDOSHA KABUSHIKI KA	AISHA				
This international preliminary exa Authority and is transmitted to the	mination report has been pr e applicant according to Arti	repared by this Inte	rnational Prelimin	ary Exami	ning
2. This REPORT consists of a total	of 5 sheets, including this of	cover sheet.	:	•	-
been amended and are the	anied by ANNEXES, i.e. she basis for this report and/or on 607 of the Administrative	sheets containing r	rectifications made	drawings verbefore the	which have is Authority
These annexes consist of a total of 1 sheets.					
3. This report contains indications relating to the following items:					
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │				٠,	.•
II Priority					
III Non-establishment o	of opinion with regard to nove	elty, inventive step	and industrial app	licability	:
	Lack of unity of invention				
V 🗵 Reasoned statemen	t under Rule 66.2(a)(li) with ations supporting such state	regard to novelty, i	inventive step or ir	ndustrial a	pplicability;
1	•	inent			
	Certain documents cited  Certain defects in the international application				
	s on the international applica	ation			•
VIII 🗀 Oettain observation.	, or and minority and approximately			•	
Date of submission of the demand	1	Date of completion of	this report	. ,	
10.07.2003 17.01.2005					
Name and malling address of the Internat preliminary examining authority:  European Patent Office - P		Authorized Officer	13 19	; ;	September Peterson,
ML-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016  Modesto, C Telephone No. +31 70 340-1055					

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP-03/08796

1	Dania	af tha	report
ı.	Basis	or the	report

**Description, Pages** 

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	1-26		as originally filed		,				
	Clair	ms, Numbers		,	'!				
	1-12	, 15	as originally filed				٠		
	13		received on 28.12.2004 v	with letter of 2	8.12.2	2004			
	,,		•			-			
	Drav	vings, Sheets		. :	4	•		•	
	1/12	-12/12	· as originally filed		•,	; 1			•
2.	With lang	regard to the <b>langua</b> q uage in which the inter	ge, all the elements marked abo national application was filed, u	ove were avail Inless otherwi	able c se ind	r furnish licated u	ed to this nder this i	Autho	rity in the
	The	se elements were avai	lable or furnished to this Author	ity in the follow	wing la	anguage	: , whi	ch is:	
		~ ~	slation furnished for the purpos				h (under	Rule 2	3. <b>1</b> (b)).
			ation of the international applica						
		the language of a tran Rule 55.2 and/or 55.3	slation furnished for the purpos	es of internati	onal p	orelimina	ry examir	ation (	under
3.	With inte	n regard to any <b>nucleo</b> rnational preliminary e	tide and/or amino acid seque xamination was carried out on t	<b>nce</b> disclosed he basis of the	in the	e interna uence lis	tional app ting:	lication	n, the
		contained in the interr	national application in written fo	rm.				:	-
		filed together with the	international application in com	nputer readabl	e forn	n. <sup>-</sup>			
		furnished subsequent	ly to this Authority in written for	m.	. }	•			•
		furnished subsequent	ly to this Authority in computer	readable form	).'				
		the displacement of the di			disclosure				
		The statement that the listing has been furnished	e information recorded in comp shed.	uter readable	form	is identic	al to the	written	sequence
4.	. The	e amendments have re	sulted in the cancellation of:		١,				:
		the description,	pages:			•			
		the claims,	Nos.:			•			
		the drawings,	sheets:		:	•			•
		•							

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/JP 03/08796

5. <b>□</b>	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims No:

No:

3-12

1,2,13,14

Inventive step (IS)

Yes: Claims

Claims 1-14

Industrial applicability (IA)

Yes: Claims

Claims

1-14

No: Claims

2. Citations and explanations

see separate sheet

### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

1 Reference is made to the following documents:

D1: US-A-5 134 014 D2: JP 11 161282 A D3: EP-A-0 341 652 D4: GB 2 175 248 A

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. The document D1 discloses (the references in parentheses applying to this document):

a sound absorbing structure, comprising:

- a flat support base (Figure 5, element 11);
- a flat sound-absorbing material arranged parallel to the support base (Figure 5, element 14); and a corrugated partition plate interposed between the support base and the sound-absorbing material (Figure 5, element 12), the corrugated partition plate having upper antinode portions opposed to the sound-absorbing material and lower antinode portions opposed to the support base (Figure 5, element 12); wherein the lower antinode portions of the corrugated partition plate are at least partially separated from the support base (Figure 5, element 12).
- 2.1 It is noted that although in D1 there is an element between the corrugated partition plate and the support base, claim 1 is silent as to the existence of something in between the two aforementioned plates, it only claims that the two are at least partially separated.
- Claim 3 appears to correspond closely to claim 1 differing in that at least a second partition plate is configured between the sound absorbing plate and the corrugated plate, partitioning the air into a plurality of "cells". D2 (as acknowledged by the applicant in the background art) discloses exactly a similar solution (see e.g. figures 16-18). Hence, although this solution appears to be novel over the cited prior art, it also appears to be not inventive in the sense of Article 33(3) PCT.

#### INTERNATIONAL PRELIMINARY International application No. PCT/JP 03/08796 **EXAMINATION REPORT - SEPARATE SHEET**

- The subject-matter of claim 13 is considered to be unclear (Article 6 PCT). Hence it 4 appears to be difficult to establish an opinion regarding novelty and inventive step of the said claim. Moreover it would appear that claim 13 is drafted in such general terms that it would lack novelty over, e.g., the acoustic panel described in any of the documents D1 - D4. Hence, the subject-matter of claim 13 is also considered to be not new in the sense of Article 33(2) PCT
- 5 The dependent claims do not appear to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, see documents D1 - D4 and the corresponding passages cited in the search report.
- 6 It is further noted that although claims 1, 3 and 13 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.
- 7 The industrial applicability of the method and apparatus of claims 1 - 14 is considered to be evident.

NO. 1073 P. :3/5

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claim 3, wherein the corrugated partition plate includes wave patterns with different frequencies.

- 12. The sound-absorbing unit as claimed in 5 claim 3, wherein the corrugated partition plate includes wave patterns with different amplitudes.
  - 13 (amended). A sound-absorbing unit comprising:
- a partition plate having a plurality of recesses formed in a first side thereof, each of said recesses having an opening with a predetermined shape on the first side; and
- a sound-absorbing material provided on the first side of the partition plate to cover the openings of the recesses,

wherein each of the recesses has a crosssectional area that gradually varies with a depth of the recess.

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#### 14 (canceled).

15. The sound-absorbing unit as claimed in claims 3 or 13, wherein the thickness of air spaces behind the sound-absorbing material is set to odd multiples of one-fourth of the wavelength of sound waves of target frequencies.

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